

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In the Patent Application of:

Soo Sang YANG et al.

Application No.: Unassigned

Group Art Unit: Unassigned

Filed: January 2, 2004

Examiner: Unassigned

For: A CHARGING APPARATUS USED WITH A MOBILE ROBOT

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this information Disclosure Statement are:

- 1 a.  Form PTO-1449.
- 1 b.  Copies of IDS citations.
- 1 c.  An English language copy of search report(s) from a counterpart foreign application or a PCT International Search Report.
- 1 d.  English language translation (Abstract only) attached to each non-English language publication.
- 1 e.  Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of each non-English publication.

2.  In accordance with 37 CFR § 1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:

(Check appropriate Items 2a, 2b, 2c and/or 2d)

- 2 a.  satisfied because all non-English language publications were cited on

the enclosed "English-language version of the search report or action which indicates the degree of relevance found by the foreign office".

(See MPEP 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, pp.600-100 to 600-101, Rev. 1, Feb. 2000.)

- 2 b.  see forth in the application.
- 2 c.  satisfied because an English language translation (Abstract only) is attached to each non-English language publication.
- 2 d.  enclosed as Attachment 1(e), hereto.

3. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 §§ 1.97(g) and (h).

Respectfully submitted,

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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><i>(Use as many sheets as necessary)</i> |    | Application Number       |                 |
|  |    | Filing Date              | January 2, 2004 |
|  |    | First Named Inventor     | Soo sang YANG   |
|  |    | Art Unit                 |                 |
|  |    | Examiner Name            |                 |
| Sheet  | of | Attorney Docket Number   |                 |
|  |    | 103-1002                 |                 |

## **U. S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

| FOREIGN PATENT DOCUMENTS |                       |   |                                |  |   |
|--------------------------|-----------------------|---|--------------------------------|--|---|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear |
|                          |                       | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known) |                                |  |   |
|                          | 1                     | JP-2002-325707  | 11-12-2002                     | Jeong-Gon SONG                                     | Abstract  |
|                          | 2                     | JP-08-083125  | 03-26-1996                     | Suk-Jin HAN  | Abstract  |
|                          | 3                     | JP-2002-370182  | 12-24-2002                     | Takafumi Kaneda                                    | Abstract  |

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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